

FIG. 2A

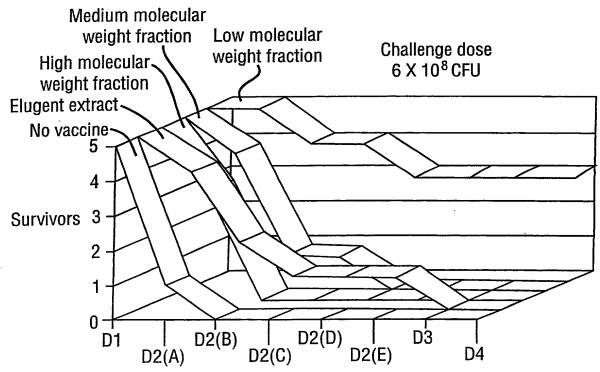


FIG. 2B

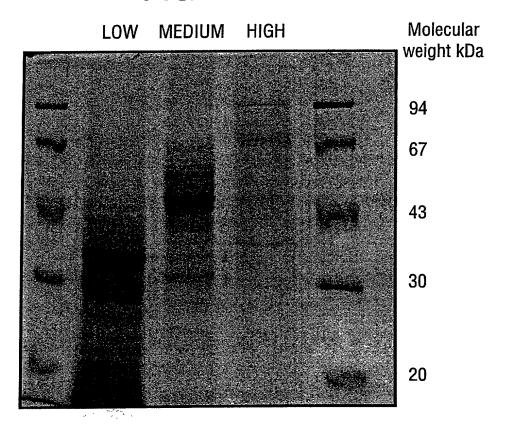


FIG. 3

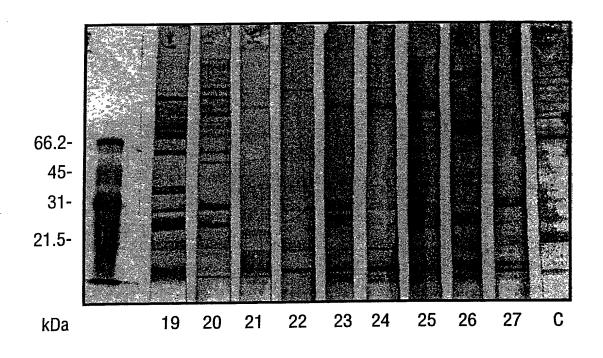
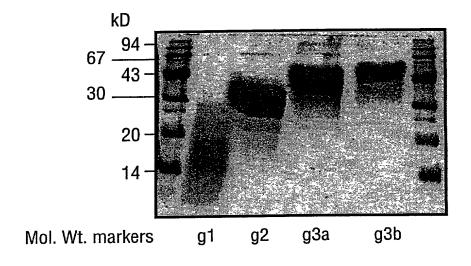


FIG. 4



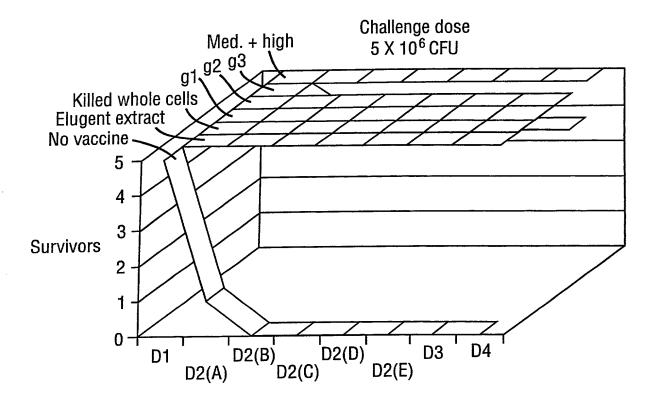


FIG. 5

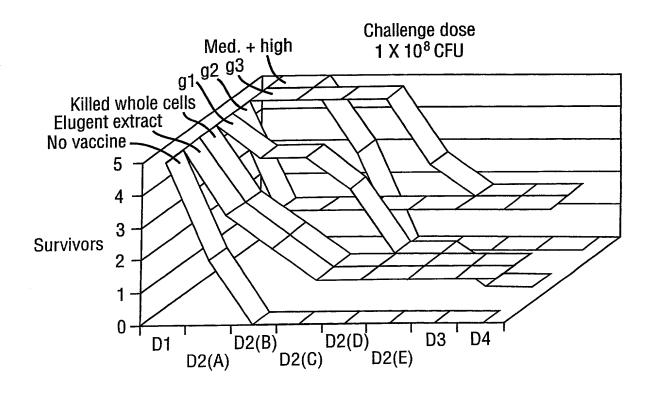


Fig. 7

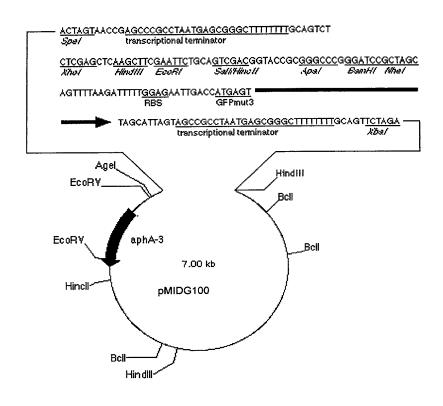
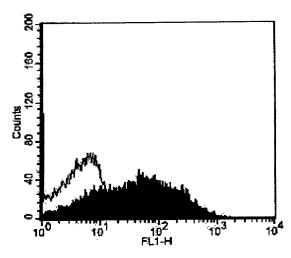


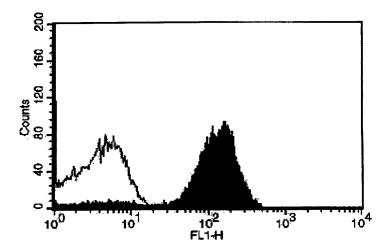
Fig. 8





Key	Name	Parameter	Gate
	N. cinerea NRL32165 pMIDG100	FL1-H	G1
	N. cinerea NRL32165 pMIDG101	FL1-H	G1

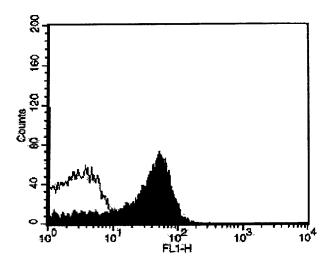
(B)



Key	Name	Parameter	Gate
	N. flava NRL30008 pMIDG100	FL1-H	G1
	N. flava NRL30008 pMIDG101	FL1+H	G1

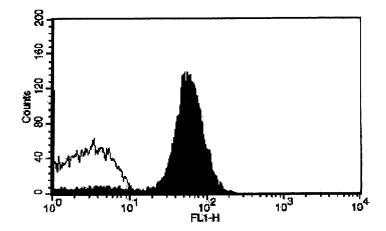
Fig. 8 (continued)

(C)



Key	Name	Parameter	Gate
	N. sicca M98-252234 pMIDG100	FL1-H	G1
	N. sicca M98-252234 pMIDG101	FL1-H	G1

(D)



Key	Name	Parameter	Gate
	N. subilava NRL30017 pMIDG100	FL1-H	G1
	N. subilava NRL30017 pMIDG101	FL1-H	G1

Fig. 8 (continued)

(E)

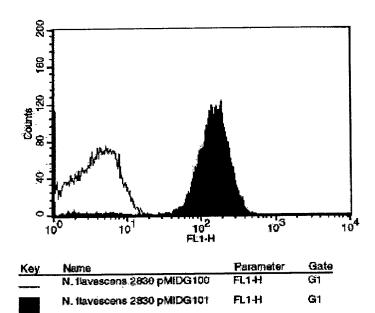


Fig. 9

(A)



(B)



Fig. 10

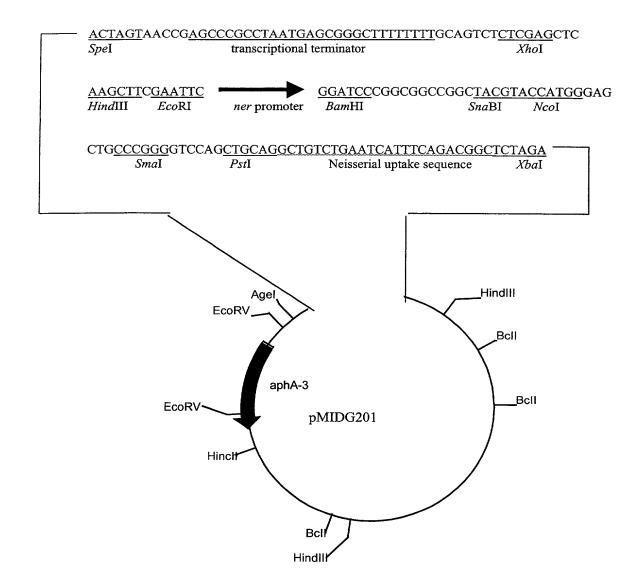


Fig. 11

NcoI - tgaccataaaggaaccaaaatatgaaaaaagcacttgccacactgattgccctcgctctcccggccgccgcactggcggaaggcgcatccttta
RBS Start codon
cgtccaagccgatgccgcacacgcaaaagcctcaagctctttaggttctgccaaaggcttcagcccgcgcatctccgcaggctaccgcatcaacgacctccgcttcgccgt
cgattacacgegctacaaaaaactataaagccccatccaccgatttcaaactttacagcatcggcgctccgccatttacgacttcgacacccaatcgcccgtcaaaccgtatctacagcatcggcgctccgccatttacgacttcgacacccaatcgcccgtcaaaccgtatctacagcatcggcgcgccgccatttacgacttcgacacccaatcgcccgtcaaaccgtatctacagcatcggcgcgcgc
$\underline{cggcgcgcttgagcctcaaccgcgcctccgtcgacttgggcggcagcgacagcttcagccaaacctccatcggcctcggcgtattgacgggcgtaagctatgccgtta}\\$
ccccgaatgtcgatttggatgccggctaccgctacaactacatcggcaaagtcaacactgtcaaaaacgtccgttccggcgaactgtccgtcggcgtgcgcgtcaaattctgaaaaacgtccgttccggcgaactgtccgtcggcgtgcgcgtcaaattctgaaaaacgtccgttccggcgaactgtccgtcggcgtgcgcgtcaaattctgaaaaaacgtccgttccggcgaactgtccgtcggcgtgcgcgtcaaattctgaaaaaacgtccgttccggcgaactgtccgtcggcgtgcgcgtcaaaattctgaaaaaacgtccgttccggcgaactgtccgtcggcgtgcgcgtcaaaattctgaaaaaacgtccgttccggcgaactgtccgtcggcgtgcgcgtcaaaattctgaaaaaacgtccgttccggcgaactgtccgtcggcgcgtcaaaattctgaaaaaacgtccgttccggcgaactgtccgtcggcgtgcgcgtcaaaattctgaaaaaaacgtccgttccggcgaactgtccgtcgaaaattctgaaaaaacgtccgttccgaaaaaaacgtccgttccgaaaaaaaa
tatgegeett attetgeaaacegeegageetteggeggttttgttttet – PstI
Stop codon Transcription terminator

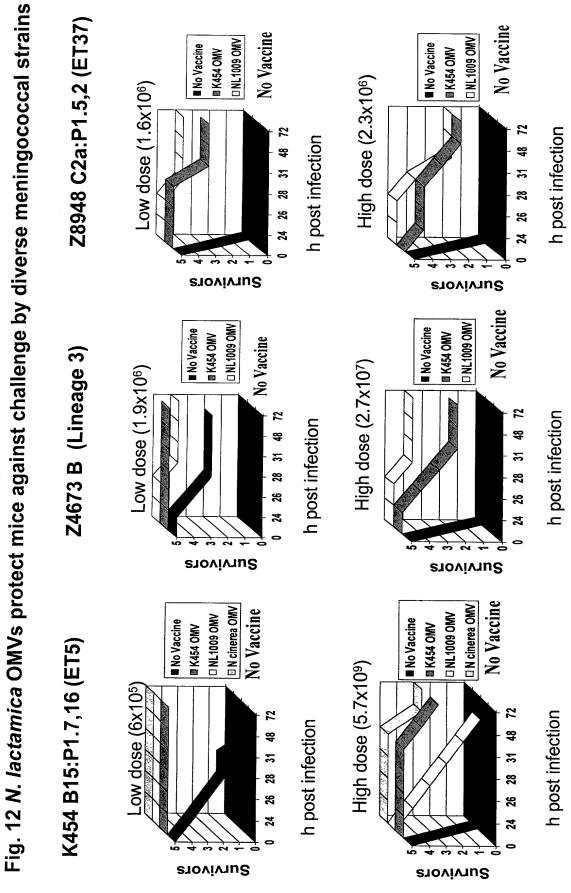


Fig 12 continued

NZ 394/98 B4:P1.6 (Lineage 3)

Z4662 B2b:P1.2 (A4)

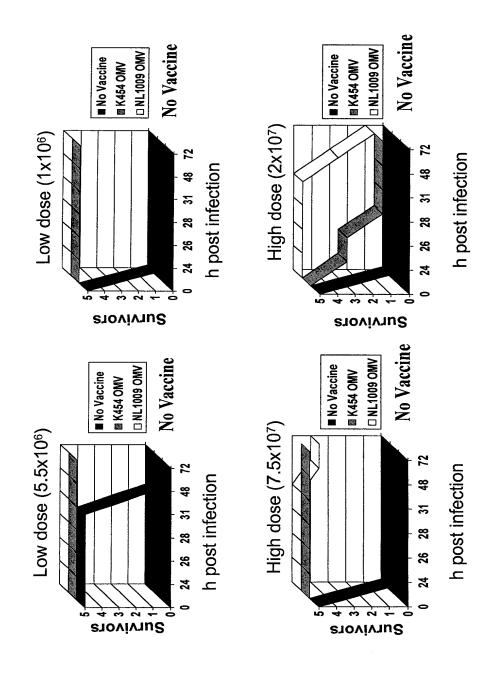


Fig. 13 Neisseria lactamica OMVs and low MW protein pool protect mice against meningococcal challenge

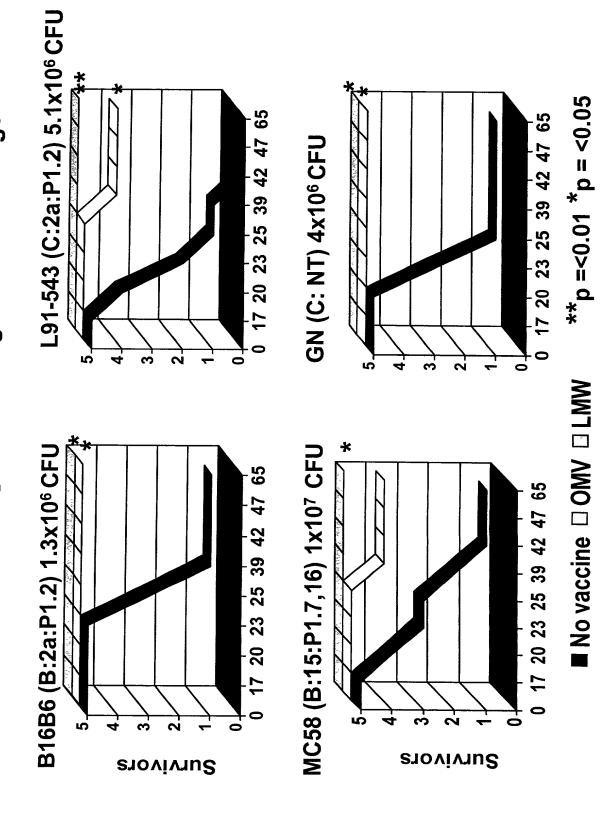


Fig. 14. N. lactamica OMVs with Freund's or alum adjuvant protect mice against serogroup B meningococcal challenge (isolate K454)

Challenge dose 4.35 x 106 CFU

